

AMENDMENT UNDER 37 CFR § 1.111  
Serial No. 09/642,108

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**AMENDMENTS TO THE CLAIMS**

This listing of the claims replaces all prior versions, and listings, of claims in the application:

**LISTING OF CLAIMS**

1. [Currently Amended] A method of extending a data service of a legacy network through a broadband packet network, the method comprising steps of:
  - a) at an ingress gateway, accumulating ~~a-payload packet data~~ comprising a predetermined number of successive bytes of a data stream respecting the data service independently of a communications protocol of the data stream, the data stream being a legacy data stream originating in the legacy network and received by the ingress gateway through the legacy network;
  - b) encapsulating the payload ~~packet data~~ within a container;
  - c) encapsulating the container within a protocol data unit (PDU) of the broadband packet network; and
  - d) forwarding the PDU through the broadband packet network to an egress gateway irrespective of routing information contained within the data stream.
2. [Cancelled]
3. [Cancelled]
4. [Previously Presented] A method as claimed in claim 1, wherein the communications protocol of the data stream is known.
5. [Currently Amended] A method as claimed in claim 4, wherein the predetermined number of bytes of the data stream forming ~~each-the~~ payload packet data is a function of the format of the data stream.
6. [Currently Amended] A method as claimed in claim 5, wherein the data stream is a circuit-switched data stream comprising pulse code modulated PCM signals, and

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the number of accumulated bytes forming ~~each the payload packet data~~ is determined by a number of channels and number of multi-frames of the data stream.

7. [Currently Amended] A method as claimed in claim 6, wherein the number of accumulated bytes forming ~~each the payload packet data~~ is equivalent to

$$Ps = (Nc \times Nm) \times n$$

Where: Ps = payload ~~packet data~~ size;

Nc = number of channels;

Nm = number of frames; and

n = an integer.

8. [Original] A method as claimed in claim 4, wherein the data stream is a packet data stream comprising sequential PDU's of a packet network protocol.
9. [Currently Amended] A method as claimed in claim 8, wherein the number of bytes forming ~~each the payload packet data~~ is an integer multiple of a number of bytes forming each PDU of the packet network protocol.
10. [Previously Presented] A method as claimed in claim 1, wherein the communications protocol of the data stream is unknown.
11. [Currently Amended] A method as claimed in claim 1, wherein the step of accumulating ~~a payload packet data~~ comprises steps of:
- a) detecting an idle pattern; and
  - b) when an idle pattern is detected, discarding bytes of the data stream corresponding to the detected idle pattern.
12. [Original] A method as claimed in claim 11, wherein the idle pattern is known.

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13. [Original] A method as claimed in claim 12, wherein the idle pattern is embedded within the data stream, and the step of detecting the idle pattern comprises a step of monitoring successively received bytes of the data stream to detect the idle pattern.
14. [Original] A method as claimed in claim 12, wherein idle pattern is indicative of an idle channel within the data stream, and the step of discarding bytes of the data stream comprises a step of discarding bytes within the indicated idle channel of the data stream.
15. [Original] A method as claimed in claim 12, wherein the idle pattern is a stimulus external to the data stream.
16. [Original] A method as claimed in claim 12, further comprising a step of forwarding an idle notification to the egress gateway, the idle notification comprising information identifying detected idle patterns and corresponding idle channels.
17. [Original] A method as claimed in claim 16, wherein the notification is forwarded within the container.
18. [Original] A method as claimed in claim 16, wherein the notification is forwarded within a notification message independently of the container.
19. [Cancelled]
20. [Currently Amended] A method as claimed in claim ~~19~~11, wherein the step of detecting the idle pattern comprises a step of monitoring ~~each~~-successive payload ~~packet-data~~ to detect a repeating pattern indicative of an idle condition of the circuit-switched data stream.
21. [Currently Amended] A method as claimed in claim 20, wherein the step of discarding bytes of the circuit-switched data stream comprises a step of discarding ~~each~~-successive payload ~~packet-data~~ in which the repeating pattern is detected.

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22. [Currently Amended] A method as claimed in claim 21, further comprising steps of:
- a) interrupting the steps of encapsulating payload ~~packets~~data within containers, encapsulating containers within PDUs and forwarding the PDUs to the egress gateway; and
  - b) sending an idle notification to the egress gateway.
23. [Currently Amended] A method as claimed in claim 22, further comprising steps of:
- a) continuing to monitor successive payload ~~packets~~data to detect the repeating pattern; and
  - b) resuming the steps of encapsulating payload ~~packets~~data within containers, encapsulating containers within PDUs and forwarding PDUs to the egress gateway when the repeating pattern is no longer detected.
24. [Previously Presented] A method as claimed in claim 1, further comprising a step of inserting a sequence number into each successive container.
25. [Original] A method as claimed in claim 24, wherein at least one sequence number is a reserved sequence number used to indicate a start of the data stream.
26. [Original] A method as claimed in claim 1, further comprising steps of:
- a) receiving sequential PDUs of the broadband packet network at the egress gateway from the ingress gateway;
  - b) extracting a respective container from each received PDU; and
  - c) reconstructing the data stream using the respective containers.
27. [Currently Amended] A method as claimed in claim 26, wherein the step of reconstructing the data stream comprises steps of:
- a) buffering each container in a jitter buffer;

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- b) extracting a respective payload ~~packet-data~~ from each container; and
  - c) appending each-extracted payload ~~packet-data~~ to a-payload ~~packet-data~~ of a previous container to reconstruct the data stream.
28. [Original] A method as claimed in claim 27, further comprising a step of sorting the buffered containers based on a respective sequence number of each container.
29. [Original] A method as claimed in claim 28, further comprising a step of monitoring the respective sequence numbers of each buffered container to detect a missing container.
30. [Currently Amended] A method as claimed in claim 29, further comprising, in respect of each detected missing container, a step of appending a-null payload ~~packet-data~~ to a-previous payload ~~packet-data~~ of the reconstructed data stream.
31. [Currently Amended] A method as claimed in claim 30, wherein the null payload ~~packet-data~~ comprises AB-bits duplicated from the-previous payload ~~packet-data~~ of the reconstructed data stream.
32. [Original] A method as claimed in claim 27, further comprising a step of
- a) monitoring an inter-packet delay period between successively received PDU's; and
  - b) adjusting a length of the jitter buffer based on the inter-packet delay.
33. [Original] A method as claimed in claim 32, wherein the length of the jitter buffer is adjusted during an idle period of the data stream.
34. [Original] A method as claimed in claim 26, wherein the step of reconstructing the data stream further comprises a step of receiving an idle notification from the ingress gateway.

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35. [Original] A method as claimed in claim 34, wherein the idle notification comprises information identifying one or more of an idle indication and a corresponding idle channel of the data stream received by the ingress gateway, and the step of reconstructing the data stream further comprises a step of inserting null data into the corresponding idle channel of the reconstructed data stream following receipt of the idle indication.
36. [Original] A method as claimed in claim 35, wherein the null data includes the idle indication.
37. [Currently Amended] A method as claimed in claim 34, wherein the idle notification comprises an indication of an idle condition of the data stream received by the ingress gateway, and the step of reconstructing the data stream comprises any one or more of duplicating a last received payload ~~packet data~~, and inserting a provisioned idle pattern.
38. [Original] A method as claimed in claim 34, wherein the notification is received by the egress gateway encapsulated within a container.
39. [Original] A method as claimed in claim 34, wherein the notification is received by the egress gateway within a notification message independently of a container.
40. [Original] A method as claimed in claim 34, further comprising a step of resuming reconstruction of the data stream based on containers extracted from received PDU's upon receipt of a container having a predetermined reserved sequence number.
41. [Currently Amended] An apparatus for extending a data service of a legacy network through a broadband packet network, the apparatus comprising:
- a) means for accumulating a payload ~~packet data~~ comprising a predetermined number of successive bytes of a data stream respecting the data service at an ingress gateway, independently of a communications protocol of the data

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stream, the data stream being a legacy data stream originating in the legacy network and received by the ingress gateway through the legacy network;

- b) means for encapsulating the payload ~~packet data~~ within a container;
- c) means for encapsulating the container within a protocol data unit (PDU) of the broadband packet network; and
- d) means for forwarding the PDU through the broadband packet network to an egress gateway irrespective of routing information contained within the data stream.

42. [Cancelled]

43. [Cancelled]

44. [Cancelled]

45. [Previously Presented] An apparatus as claimed in claim 41, wherein the communications protocol of the data stream is known.

46. [Original] An apparatus as claimed in claim 45, wherein the predetermined number of bytes of the data stream forming each payload packet is a function of the format of the data stream.

47. [Currently Amended] An apparatus as claimed in claim 46, wherein the data stream is a circuit-switched data stream comprising pulse code modulated (PCM) signals, and the number of accumulated bytes forming each-the payload packet data is determined by a number of channels and a number of multi-frames of the data stream.

48. [Currently Amended] An apparatus as claimed in claim 47, wherein the number of accumulated bytes forming each-the payload packet data is equivalent to

$$Ps = (Nc \times Nm) \times n$$

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Where:  $P_s$  = payload ~~packet data~~ size;

$N_c$  = number of channels;

$N_m$  = number of frames; and

$n$  = an integer.

49. [Original] An apparatus as claimed in claim 45, wherein the data stream is a packet data stream comprising sequential PDU's of a packet network protocol.
50. [Currently Amended] An apparatus as claimed in claim 49, wherein the number of bytes forming each ~~the payload packet data~~ is an integer multiple of a number of bytes forming each PDU of the packet network protocol.
51. [Previously Presented] An apparatus as claimed in claim 41, wherein the communications protocol of the data stream is unknown.
52. [Currently Amended] An apparatus as claimed in claim 41, wherein the means for accumulating a payload ~~packet data~~ comprises:
- a) means for detecting an idle pattern; and
  - b) means responsive to detection of an idle pattern and adapted to discard bytes of the data stream corresponding to the detected idle pattern.
53. [Original] An apparatus as claimed in claim 52, wherein the idle pattern is known.
54. [Original] An apparatus as claimed in claim 53, wherein the idle pattern is embedded within the data stream, and the means for detecting the idle pattern comprises means for monitoring successively received bytes of the data stream to detect the idle pattern.
55. [Original] An apparatus as claimed in claim 53, wherein idle pattern is indicative of an idle channel within the data stream, and the means for discarding bytes of the



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data stream comprises means for discarding bytes within the indicated idle channel of the data stream.

56. [Original] An apparatus as claimed in claim 53, wherein the idle pattern is a stimulus external to the data stream.
57. [Original] An apparatus as claimed in claim 53, further comprising means for forwarding an idle notification to the egress gateway, the idle notification comprising information identifying detected flags and corresponding idle channels.
58. [Original] An apparatus as claimed in claim 57, wherein the notification is forwarded within the container.
59. [Original] An apparatus as claimed in claim 57, wherein the notification is forwarded within a notification message independently of the container.
60. [Cancelled]
61. [Currently Amended] An apparatus as claimed in claim ~~60~~52, wherein the means for detecting the idle pattern comprises means for monitoring each successive payload ~~packet~~data to detect a repeating pattern indicative of an idle condition of the circuit-switched data stream.
62. [Currently Amended] An apparatus as claimed in claim 61, wherein the means for discarding bytes of the circuit-switched data stream comprises means for discarding ~~each~~ successive payload ~~packet~~data in which the repeating pattern is detected.
63. [Currently Amended] An apparatus as claimed in claim 62, further comprising:
- a) means for interrupting encapsulation of payload ~~packets~~data within containers, encapsulating containers within PDUs and forwarding the PDUs to the egress gateway; and
  - b) means for sending an idle notification to the egress gateway.

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64. [Currently Amended] An apparatus as claimed in claim 63, further comprising means for resuming the encapsulation of payload ~~packets~~data within containers, encapsulation of containers within PDUs and forwarding of PDUs to the egress gateway when the repeating pattern is no longer detected.
65. [Previously Presented] An apparatus as claimed in claim 41, further comprising means for inserting a sequence number into each successive container.
66. [Original] An apparatus as claimed in claim 65, wherein at least one sequence number is a reserved sequence number used to indicate a start of the data stream.
67. [Currently Amended] An apparatus for extending a data service of a legacy network through a broadband packet network, the apparatus comprising:
- a) means for receiving sequential PDUs of the broadband packet network at an egress gateway from an ingress gateway;
  - b) means for extracting a respective container from each received PDU; and
  - c) means for reconstructing a data stream respecting the data service using payload data contained within the respective containers, independently of a communications protocol of the data stream, the data stream being a legacy data stream originating in the legacy network and received by the ingress gateway through the legacy network; and
- wherein the PDU is routed from the ingress gateway to the egress gateway irrespective of routing information contained within the data stream.
68. [Currently Amended] An apparatus as claimed in claim 67, wherein the means for reconstructing the data stream comprises:
- a) a jitter buffer adapted to buffer each container;
  - b) means for extracting ~~a~~-respective payload ~~packet~~data from each buffered container; and
  - c) means for appending each extracted payload ~~packet~~data to ~~a~~-payload ~~packet~~data of a previous container to reconstruct the data stream.

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69. [Original] An apparatus as claimed in claim 68, further comprising means for sorting the buffered containers based on a respective sequence number of each container.
70. [Original] An apparatus as claimed in claim 69, further comprising means for monitoring the respective sequence numbers of each buffered container to detect a missing container.
71. [Currently Amended] An apparatus as claimed in claim 70, further comprising, means for appending a null payload ~~packet~~data to a previous payload ~~packet~~data of the reconstructed data stream in respect of each detected missing container.
72. [Currently Amended] An apparatus as claimed in claim 71, wherein the null payload ~~packet~~data comprises AB-bits duplicated from the previous payload ~~packet~~data of the reconstructed data stream.
73. [Original] An apparatus as claimed in claim 68, further comprising:
- a) means for monitoring an inter-packet delay period between successively received PDU's; and
  - b) means for adjusting a length of the jitter buffer based on the inter-packet delay.
74. [Original] An apparatus as claimed in claim 73, wherein the length of the jitter buffer is adjusted during an idle period of the data stream.
75. [Original] An apparatus as claimed in claim 67, wherein the means for reconstructing the data stream further comprises means for receiving an idle notification from the ingress gateway.
76. [Original] An apparatus as claimed in claim 75, wherein the idle notification comprises information identifying one or more of an idle indication and a corresponding idle channel of the data stream received by the ingress gateway, and

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the means for reconstructing the data stream further comprises means for inserting null data into the corresponding idle channel of the reconstructed data stream in response to receipt of the idle indication.

77. [Original] An apparatus as claimed in claim 76, wherein the null data includes the idle indication.
78. [Currently Amended] An apparatus as claimed in claim 75, wherein the idle notification comprises an indication of an idle condition of the data stream received by the ingress gateway, and the means for reconstructing the data stream comprises means for duplicating a last received payload ~~packet~~data in response to receipt of the idle notification.
79. [Original] An apparatus as claimed in claim 75, wherein the notification is received by the egress gateway encapsulated within a container.
80. [Original] An apparatus as claimed in claim 75, wherein the notification is received by the egress gateway within a notification message independently of a container.
81. [Original] An apparatus as claimed in claim 75, further comprising means for resuming reconstruction of the data stream based on containers extracted from received PDU's upon receipt of a container having a predetermined reserved sequence number.
82. [Currently amended] A system for extending a data service of a legacy network through a broadband packet network, the system comprising:
- a) an ingress gateway comprising:
    - i) means for accumulating a—payload ~~packet~~data comprising a predetermined number of successive bytes of a data stream respecting the data service independently of communications protocol of the data stream, the data stream being a legacy data stream originating in the

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legacy network and received by the ingress gateway through the legacy network;

- ii) means for encapsulating the payload data stream within a container; and
- iii) means for encapsulating the container within a protocol data unit (PDU) of the broadband packet network;
- b) means for conveying the PDU through the broadband packet network to an egress gateway irrespective of routing information contained within the data stream; and
- c) the egress gateway comprising:
  - i) means for extracting a respective container from each received PDU; and
  - ii) means for reconstructing the data stream using the respective containers.

83. [Cancelled]

84. [Cancelled]

85. [Previously Presented] A system as claimed in claim 82, wherein the broadband packet network is based on any one or more of the UDP/IP, TCP/IP, IP-MPLS, ATM, Ethernet and DOCSIS protocols, and the data stream is based on any other communications protocol.

86. [Previously Presented] A system as claimed in claim 85, wherein the communications protocol of the data stream is known.

87. [Currently Amended] A system as claimed in claim 86, wherein the predetermined number of bytes of the data stream forming each payload packet data is a function of the format of the data stream.

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88. [Currently Amended] A system as claimed in claim 87, wherein the data stream is a circuit-switched data stream comprising pulse code modulated (PCM) signals, and the number of accumulated bytes forming each payload ~~packet~~data is determined by a number of channels and a number of multi-frames of the data stream.
89. [Currently Amended] A system as claimed in claim 88, wherein the number of accumulated bytes forming each payload ~~packet~~data is equivalent to
- $$Ps = (Nc \times Nm) \times n$$
- Where: Ps = payload ~~packet~~data size;
- Nc = number of channels;
- Nm = number of frames; and
- n = an integer.
90. [Original] A system as claimed in claim 86, wherein the data stream is a packet data stream comprising sequential PDU's of a packet network protocol.
91. [Currently Amended] A system as claimed in claim 90, wherein the number of bytes forming each payload ~~packet~~data is an integer multiple of a number of bytes forming each PDU of the packet network protocol.
92. [Previously Presented] A system as claimed in claim 85, wherein the communications protocol of the data stream is unknown.
93. [Currently Amended] A system as claimed in claim 82, wherein the means for accumulating a payload ~~packet~~data comprises:
- means for detecting an idle pattern; and
  - means responsive to detection of an idle pattern and adapted to discard bytes of the data stream corresponding to the detected idle pattern.

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94. [Original] A system as claimed in claim 93, wherein the idle pattern is known.
95. [Original] A system as claimed in claim 94, wherein the idle pattern is embedded within the data stream, and the means for detecting the idle pattern comprises means for monitoring successively received bytes of the data stream to detect the idle pattern.
96. [Original] A system as claimed in claim 94, wherein idle pattern is indicative of an idle channel within the data stream, and the means for discarding bytes of the data stream comprises means for discarding bytes within the indicated idle channel of the data stream.
97. [Original] A system as claimed in claim 94, wherein the idle pattern is a stimulus external to the data stream.
98. [Original] A system as claimed in claim 94, further comprising means for forwarding an idle notification to the egress gateway, the idle notification comprising information identifying detected flags and corresponding idle channels.
99. [Original] A system as claimed in claim 98, wherein the notification is forwarded within the container.
100. [Original] A system as claimed in claim 98, wherein the notification is forwarded within a notification message independently of the container.
101. [Cancelled]
102. [Currently Amended] A system as claimed in claim ~~101~~93, wherein the means for detecting the idle pattern comprises means for monitoring each successive payload packet data to detect a repeating pattern indicative of an idle condition of the circuit-switched data stream.

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103. [Currently Amended] A system as claimed in claim 102, wherein the step of discarding bytes of the circuit-switched data stream comprises a step of discarding ~~each~~-successive payload ~~packet~~data in which the repeating pattern is detected.
104. [Currently Amended] A system as claimed in claim 103, further comprising:
- a) means for interrupting encapsulation of payload ~~packets~~data within containers, encapsulating containers within PDUs and forwarding the PDUs to the egress gateway; and
  - b) means for sending an idle notification to the egress gateway.
105. [Currently Amended] A system as claimed in claim 104, further comprising:
- a) means for continuing to monitor successive payload ~~packets~~data to detect the repeating pattern; and
  - b) means for resuming the steps of encapsulating payload ~~packets~~data within containers, encapsulating containers within PDUs and forwarding PDUs to the egress gateway when the repeating pattern is no longer detected.
106. [Previously Presented] A system as claimed in claim 82, further comprising means for inserting a sequence number into each successive container.
107. [Original] A system as claimed in claim 106, wherein at least one sequence number is a reserved sequence number used to indicate a start of the data stream.
108. [Currently Amended] A system as claimed in claim 82, wherein the means for reconstructing the data stream comprises steps of:
- a) a jitter buffer adapted to buffer each container;
  - b) means for extracting ~~a~~-respective payload ~~packet~~data from each buffered container; and
  - c) means for appending ~~each~~-extracted payload ~~packet~~data to ~~a~~-payload ~~packet~~data of a previous container to reconstruct the data stream.



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109. [Original] A system as claimed in claim 108, further comprising means for sorting the buffered containers based on a respective sequence number of each container.
110. [Original] A system as claimed in claim 109, further comprising means for monitoring the respective sequence numbers of each buffered container to detect a missing container.
111. [Currently Amended] A system as claimed in claim 110, further comprising means for appending a null payload packetdata to a previous payload packetdata of the reconstructed data stream in respect of each detected missing container.
112. [Currently Amended] A system as claimed in claim 111, wherein the null payload packetdata comprises AB-bits duplicated from the previous payload packetdata of the reconstructed data stream.
113. [Original] A system as claimed in claim 108, further comprising:
- a) means for monitoring an inter-packet delay period between successively received PDU's; and
  - b) means for adjusting a length of the jitter buffer based on the inter-packet delay.
114. [Original] A system as claimed in claim 113, wherein the length of the jitter buffer is adjusted during an idle period of the data stream.
115. [Original] A system as claimed in claim 82, wherein the means for reconstructing the data stream further comprises means for receiving an idle notification from the ingress gateway.
116. [Original] A system as claimed in claim 115, wherein the idle notification comprises information identifying one or more of an idle indication and a corresponding idle channel of the data stream received by the ingress gateway, and the means for reconstructing the data stream further comprises means for inserting

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null data into the corresponding idle channel of the reconstructed data stream in response to receipt of the idle indication.

117. [Original] A system as claimed in claim 116, wherein the null data includes the idle indication.
118. [Currently Amended] A system as claimed in claim 115, wherein the idle notification comprises an indication of an idle condition of the data stream received by the ingress gateway, and the means for reconstructing the data stream comprises means for duplicating a last received payload ~~packet~~data in response to receipt of the idle notification.
119. [Original] A system as claimed in claim 115, wherein the notification is received by the egress gateway encapsulated within a container.
120. [Original] A system as claimed in claim 115, wherein the notification is received by the egress gateway within a notification message independently of a container.
121. [Original] A system as claimed in claim 115, further comprising means for resuming reconstruction of the data stream based on containers extracted from received PDU's upon receipt of a container having a predetermined reserved sequence number.
122. [Previously Presented] A method as claimed in claim 1, wherein the broadband packet network is based on any one or more of the UDP/IP, TCP/IP, IP-MPLS, ATM, Ethernet and DOCSIS protocols, and the data stream is based on any other communications protocol.
123. [Previously Presented] An apparatus as claimed in claim 41, wherein the broadband packet network is based on any one or more of the UDP/IP, TCP/IP, IP-MPLS, ATM, Ethernet and DOCSIS protocols, and the data stream is based on any other communications protocol.

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